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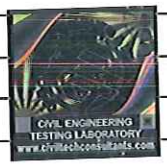
Job No.: CTCE/BBMP/KRIDL/WNo.13/SDBC/AIV/2016-17

11.04.2016

Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	Improvements and Asphalting to 1st and 2nd Main road of BHEL Mini colony and other roads in Mallasandra, in Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.
Reference	No. EE/DD/WO/ /2015-16
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	11.04.2016



Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	298	298	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.78	22.19	21.99

Comments:

→ Maximum allowable Aggregate Impact value for Semi Dense Bituminous Concrete is 27%

Note:

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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore
Agency	**Technical Manager (West),** KRIDL, Bangalore.
Name of Work	Improvements and Asphalting to 1st and 2nd Main road of BHEL Mini colony and other roads in Mallasandra, in Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.
Reference	No. EE/DD/WO/ /2015-16
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	11.04.2016

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Result : Flakiness Index = **11.36%**

Elongation Index = **13.52%**

Result : Combined Flakiness & Elongation index 24.88%

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Comments:

→ Maximum allowable Flakiness & Elongation Index for Semi Dense Bituminous Concrete is 30%

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Reference	No. EE/DD/WO/ /2015-16
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	11.04.2016

Result : Flakiness Index = **11.59%**

Elongation Index = **13.71%**

Result : Combined Flakiness & Elongation index **25.30%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Semi Dense Bituminous Concrete is 30%

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Result : Flakiness Index = **11.16%**

Elongation Index = **13.85%**

Result : Combined Flakiness & Elongation index **25.01%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Semi Dense Bituminous Concrete is 30%

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Reference	No. EE/DD/WO/ /2015-16
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	11.04.2016

Result : Flakiness Index = **11.35%**

Elongation Index = **12.80%**

Result : Combined Flakiness & Elongation index **24.15%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Semi Dense Bituminous Concrete is 30%

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Reference	No. EE/DD/WO/ /2015-16
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Semi Dense Bituminous Concrete
Date of Testing	11.04.2016

Result : Flakiness Index = **11.60%**

Elongation Index = **13.10%**

Result : Combined Flakiness & Elongation index **24.70%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Semi Dense Bituminous Concrete is 30%

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